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AMPHOLYTE TERPOLYMER COMPOSITIONS

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(71) Applicant(s)
CALGON CORPORATION

(72) Inventor(s)
SHIH-RUEY THOMAS CHEN; CRAIG W. VAUGHAN; ALLAN L. MELBY; GARY F. MATZ

(74) Attorney or Agent
SPRUSON & FERGUSON, GPO Box 3898, SYDNEY NSW 2001

(57) Claim

1. A composition in which a cosmetically acceptable medium is used which contains from 0.1 to 10wt% of a water soluble ampholyte terpolymer having a weight average molecular weight of from about 10 thousand to 10 million, comprising:

(a) from at least 1 to 95wt% of a nonionic monomer comprising from 1 to 3 of acrylamide (AM), vinylacetate (VA), N-alkylacrylamide (NAAM), vinyl alcohol (VOH), N-vinylpyrrolidinone (VP), acrylate esters, methacrylamide (MAM), or allyl alcohol (AAlc), or a derivative thereof;

(b) from at least 5 to 80wt% of a cationic monomer comprising 1 or 2 of dimethyldiallylammonium chloride (DMDAAC), diallylamine (DAA), methyldiallylamine (MDAA), N,N-dialkyldiallylammonium chloride, dimethylaminoethylmethacrylate (DMAEM), methacryloyloxyethyl trimethylammonium chloride (METAC), methacryloyloxyethyl trimethylammonium methyl sulfate (METAMS), acryloyloxyethyl trimethylammonium chloride (AETAC), dimethylaminopropylmethacrylamide (DMPMA), or methacrylamidopropyl trimethylammonium chloride (MAPTAC), or a derivative thereof; and

(c) from at least 1 to 75wt% of an anionic monomer comprising from 1 to 3 of acrylic acid (AA), methacrylic acid (MAA), 2-acrylamido-2-methylpropanesulfonic acid (AMPSA), crotonic acid (CA), sodium vinyl sulfonate (SVS), acrylamidoglycolic acid (AGly), 2-acrylamido-2-methylbutanoic acid (AMBA), 2-acrylamido-2-methylpropanephosphonic acid (AMPPA), sodium vinyl phosphate (SVP), or allyl phosphonic acid (APA) or a derivative thereof.

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16. A method of treating hair in conjunction with the shampooing thereof with an anionic surfactant-containing shampoo, so as to improve the conditioning thereof with respect to the properties of detangling, wet compatibility, wet feel, dry compatibility, dry feel, sheen, static flyaway control, and curl retention, comprising applying to said hair a composition compatible with said anionic surfactant-containing shampoo such that a clear formulation thereof is provided without the loss of said conditioning properties, wherein said composition is according to any one of claims 1 to 12.